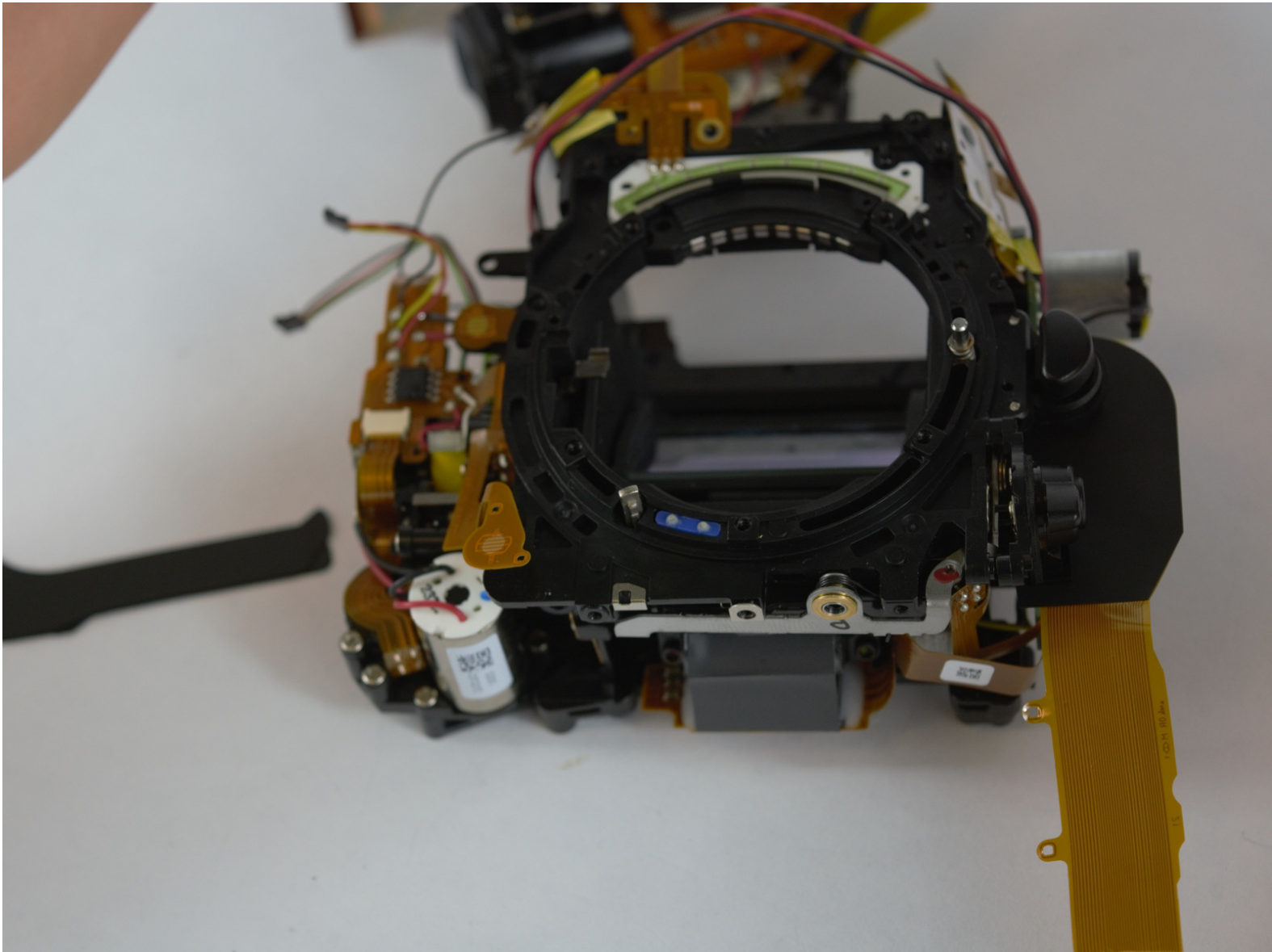




Nikon D610 Autofocus Drive Motor Replacement

This guide will help you to replace the D610's autofocus drive motor.

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INTRODUCTION

This guide will demonstrate how to replace the Nikon auto focus drive motor.

TOOLS:

- [Phillips #00 Screwdriver](#) (1)
 - [Desoldering Braid](#) (1)
 - [Soldering Station](#) (1)
 - [Spudger](#) (1)
-

Step 1 — Battery



- First, power off the device.

Step 2



- Set the camera so that it is sitting on its side.
- Open the battery compartment door by sliding the release button towards the lens.
- This will cause the door to "pop" open slightly

Step 3



- Now lift open the battery compartment door.
- Push the yellow tab lock towards the center to release the battery.
- ⓘ This will cause the battery to jump up as there is a spring at the bottom.
- Pull straight out, slowly on the battery.
- ⚠ Make sure you pay attention to which way the battery goes .

Step 4 — Outer Case



- After removal of the battery. Pull the battery compartment door away from the lens.
- There are eleven Philips head screws that hold the bottom cover on, including a few inside the battery compartment.
- Remove all the screws and the bottom face should pop off easily.

Step 5



- Then next step is removing the seven Philips #00 screws that hold the rear face plate on.
- There are screws hidden in three separate spots.
- One is under the rubber doors on the left side of the camera. the next one at the eye hole.
- The final one involves taking off the small dial that is about half an inch to the right of the eye hole.
- Removing this dial involves putting a spungder tool behind it and applying a gradual amount of pressure.

Step 6



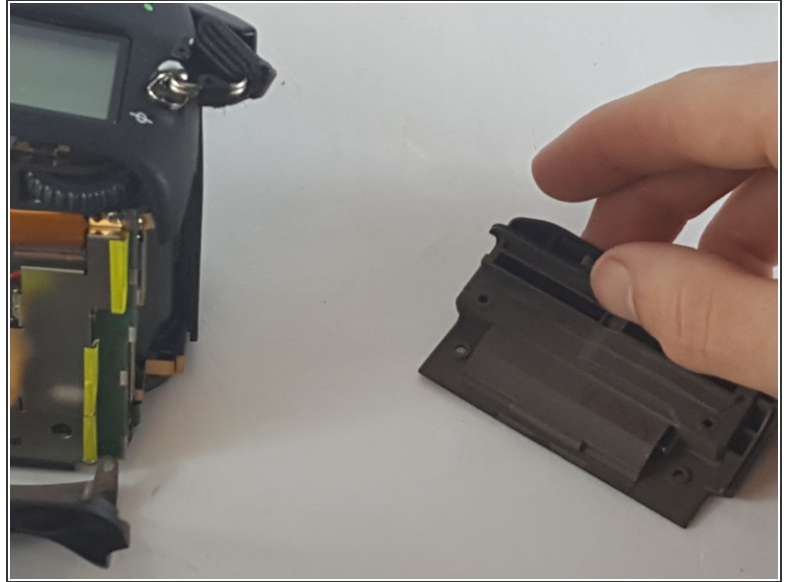
- The rear face plate will include the LCD display it separates from the body of the camera with a small tug.
- ⚠ Do not pull too hard otherwise you risk breaking the ribbon wire that connects the controls and the screen.
- Once there is enough space it will be possible to gently pull the ribbon cable out of their ports.

Step 7



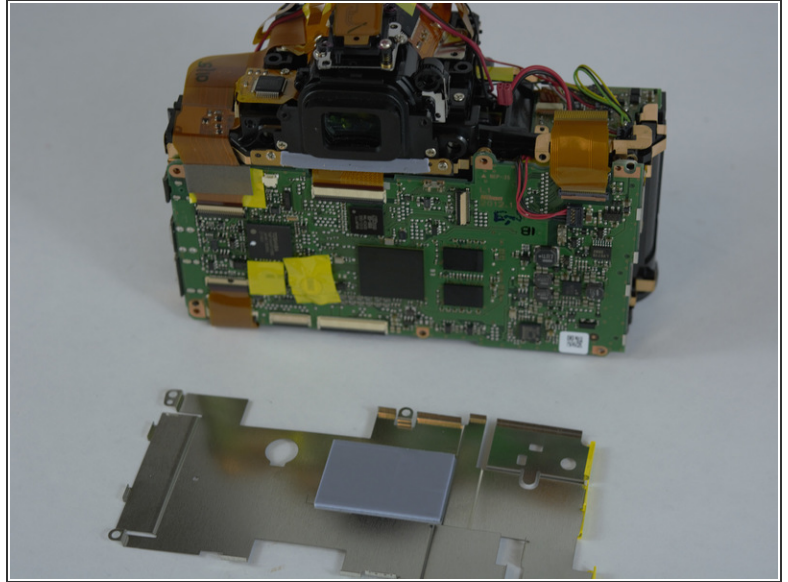
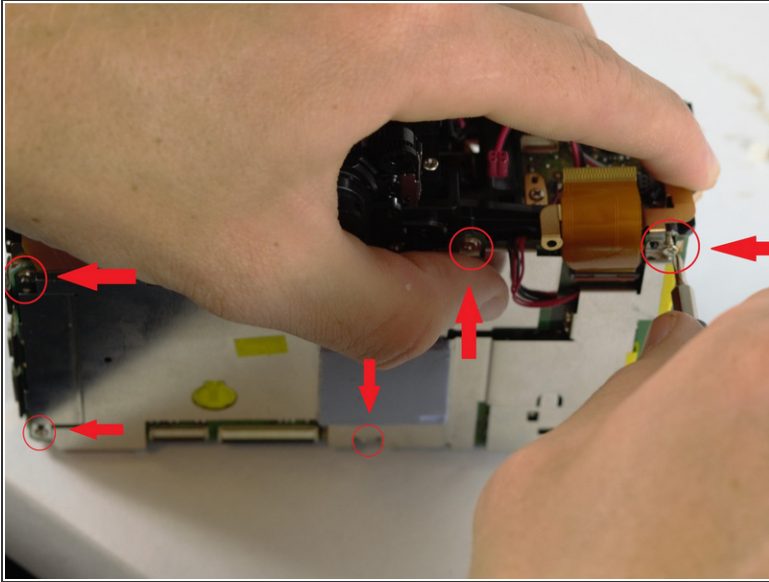
- The next piece to come off is the front plate and the red grip.
 - The front plate is held on by 2 Philips #00 screws on the front and two more beneath the flash bulb.
 - Remove the two Phillips #00 screws holding on the grip and it slides off easily.
- i** After removing the screws the face plate comes off by pulling it straight off to avoid damage.

Step 8



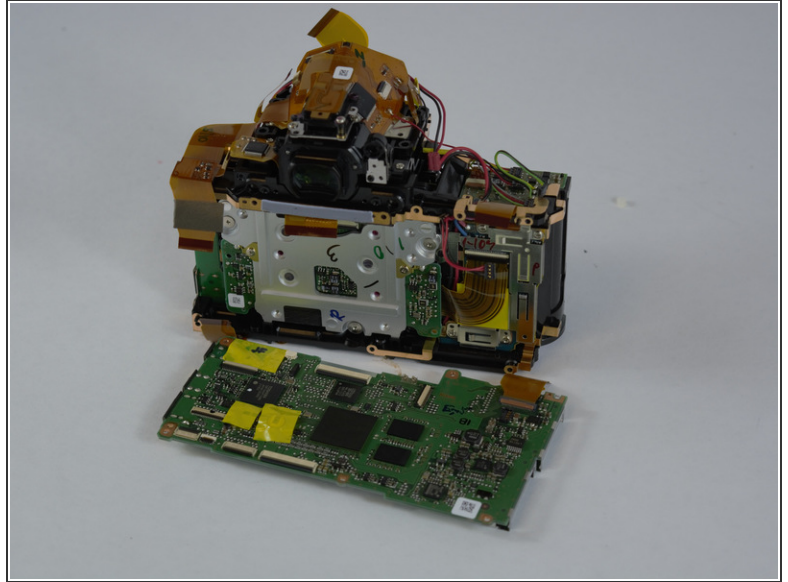
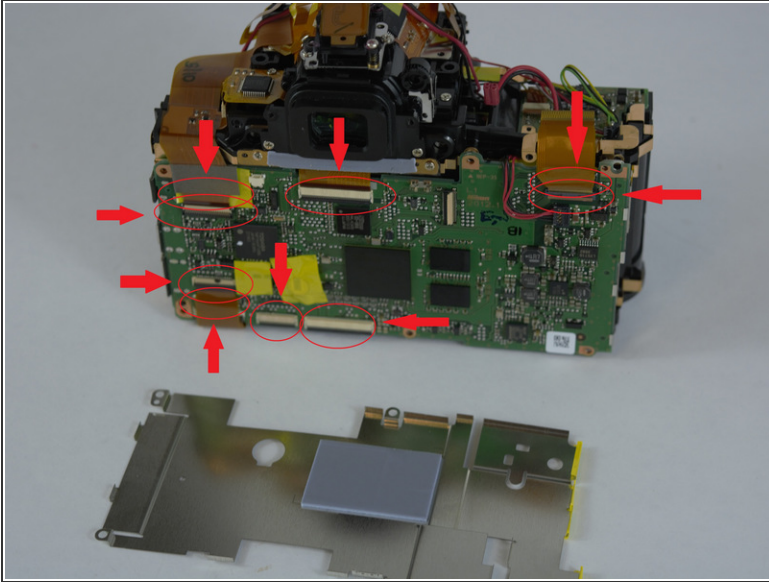
- It is now possible to remove the last three Philips #00 screws that are hidden under the memory card slot door.
 - The screws come out and the cover comes straight off.
 - The last cover plate is the top. The top is held on by two screws located just beneath the rim of the cover.
- ⚠ The top should be pulled off very slowly. There are several electronic components that connect between the body and the top.
- ⓘ There are three wires that need to be disconnected.

Step 9 — Motherboard



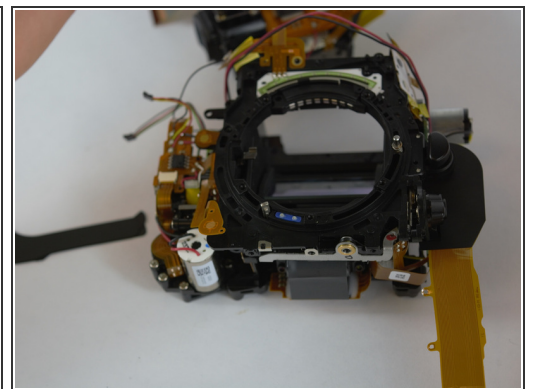
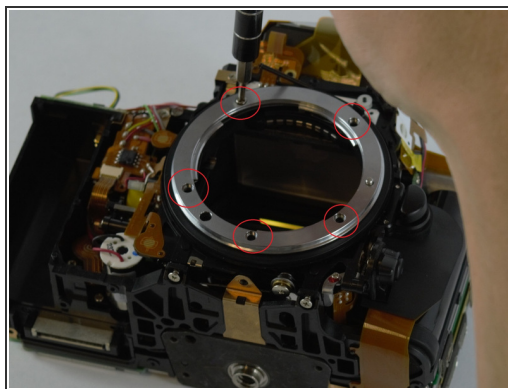
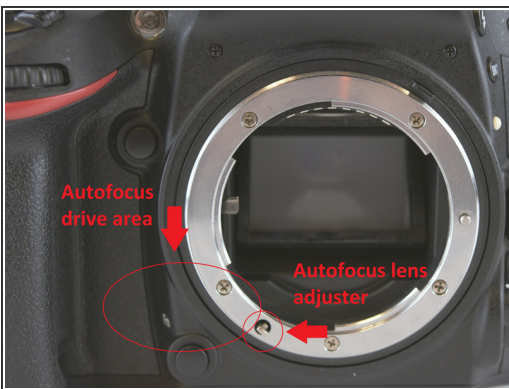
- The rear side of the camera is where the motherboard is located. It is visible after you have taken off the rear face plate.
- Remove the shield that protects it from static first.
- This shield has six Philips #00 screws that are positioned around the edge of the shield.
- After removal of the screws the shield will come free from the motherboard.

Step 10



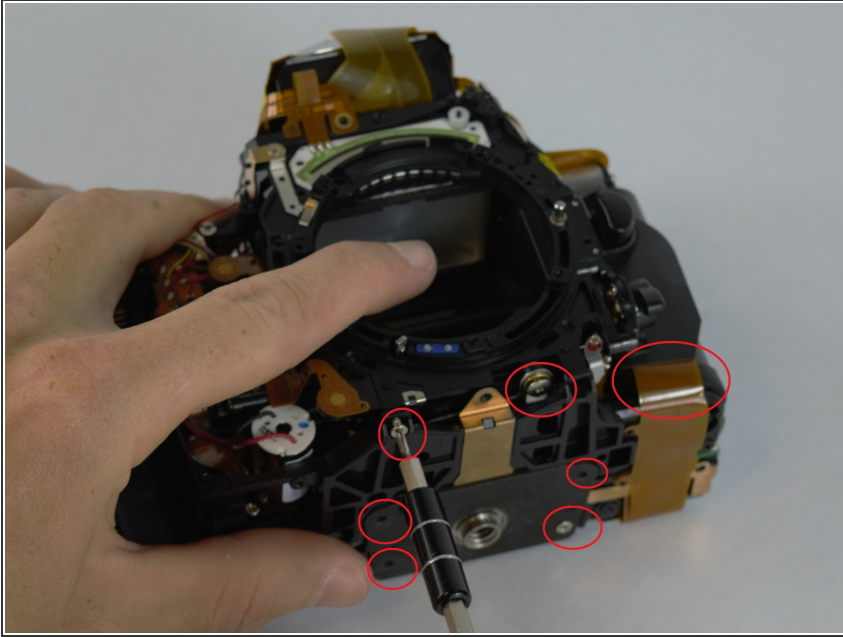
- i The six screws that were removed in the previous step also hold the motherboard in place.
- There are a few ribbon cables that connect to the motherboard to the rest of the camera with some of them hiding under other ribbon cables.
- ! Be very careful when removing the ribbon wires. If they break it can cause problems with needing more repairs.

Step 11 — Autofocus Drive Motor



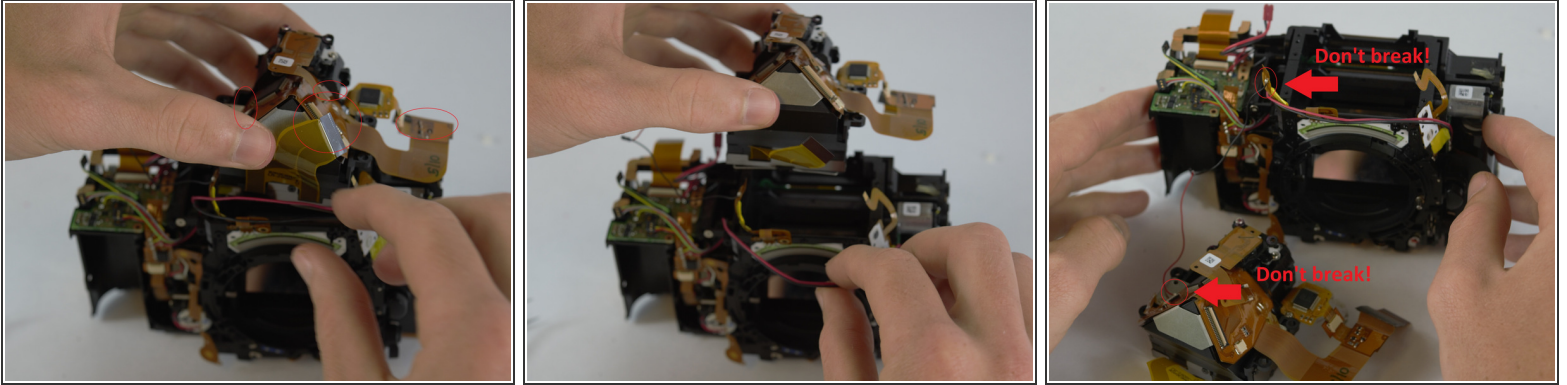
- i The focus motor is located in between the right hand grip and the lens socket and requires several parts to be replaced as a whole because it is unreachable.
- Begin by removing the silver ring around the lens socket by unscrewing the five screws supporting it.

Step 12



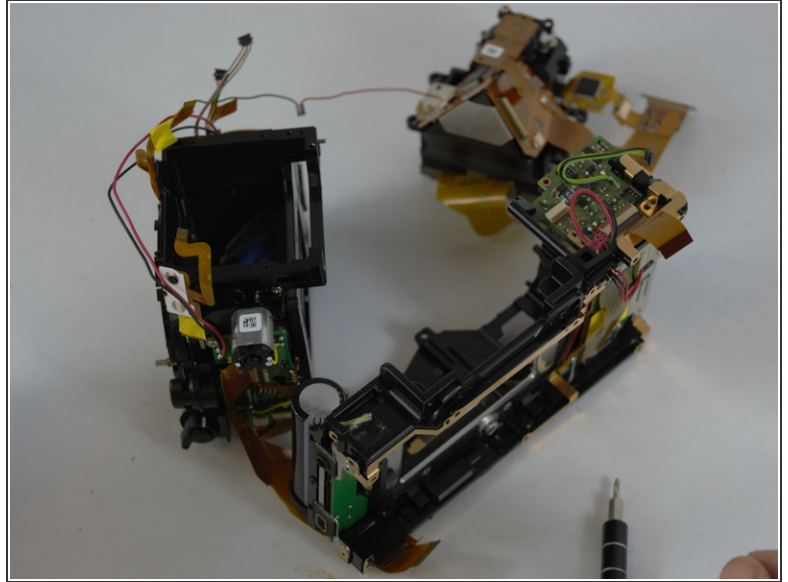
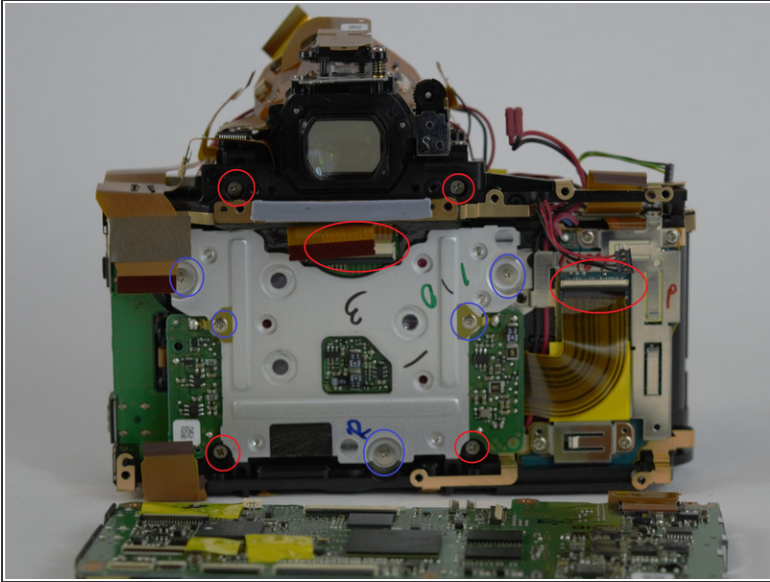
- Several screw and ribbon cables and the bottom portion of the camera need to be removed as shown in the picture

Step 13



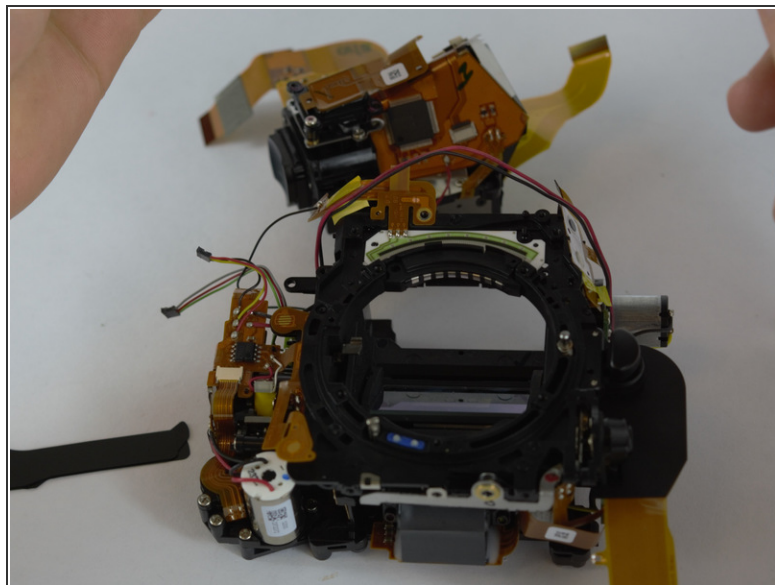
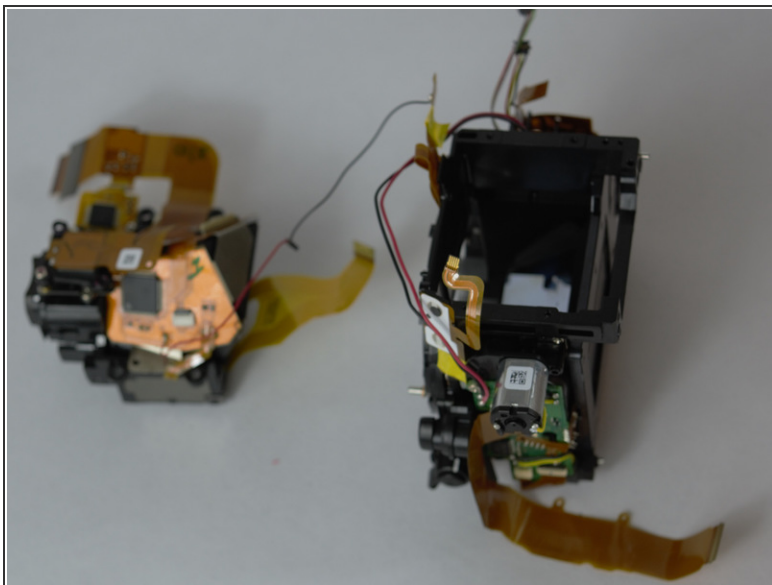
- Now that the bottom is prepped we move onto the top.
- Here we have more ribbon cables and screws that need to be removed that will end up releasing the top viewing lens area.
- i* Some of the ribbon cables reach back around to the motherboard and may need to be removed there.
- i* Also, there is a wire that runs along the top that just needs to be shifted out of the way.
- !* be careful not to break the red or black wire attached to some of the ribbon cables as they will need to be re-soldered if broken.

Step 14



- This is where having the motherboard off is necessary as the screws we need are burrowed at the very heart of the camera.
- Four more screws and two ribbon cables marked by the red circles need to be removed to release what we need.
- ⓘ The blue circles indicate the screws that don't need to be undone to get to what we need.

Step 15



- At last, the holy grail. We finally have the part that we want.
- At this point, damage to the camera becomes highly probable if we were to continue to take it apart and we recommend replacing the entire lens housing.

⚠ We do not recommend tearing down any further as damage is likely to occur.

To reassemble your device, follow these instructions in reverse order.

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